

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claim 1 (currently amended): A method for operating a fuel cell that generates an anode gas including combustible components comprising receiving the anode gas from the fuel cell at an elevated temperature, adding air to the anode gas to form an oxidizable anode gas mixture, transferring heat from the anode gas to the air before the air is added to the anode gas to thereby lower a temperature of the anode gas, heating the air when a temperature of the mixture drops to below a temperature at which the combustible components can be catalytically oxidized to thereby give the mixture a temperature at which the combustible components catalytically oxidize, catalytically oxidizing the mixture to form an effluent, ~~[[and]]~~ thereafter heating the effluent during at least portions of the time when the fuel cell generates electricity, and flowing the effluent to the fuel cell.

Claims 2 and 3 (canceled)

Claim 4 (currently amended): A method according to claim ~~[[3]]~~ 1 wherein ~~exchanging~~ transferring heat comprises forming first and second flow paths for the anode gas and the air flow and separating the flow paths by a heat exchange medium to transfer heat between the anode gas and the air flow so that the temperatures of the anode gas and the air flow become more equal, and thereafter merging the anode gas and the air flow to form the mixture.

Claim 5 (previously presented): A method according to claim 4 including selecting a length of the flow paths so that substantially no portions of the mixture are above an auto-ignition temperature of the combustible components in the anode gas at at least one of a predetermined highest temperature and a concentration of combustible components in the anode gas encountered during the operation of the fuel cell.

Claim 6 (previously presented): A method according to claim 1 including modulating a heat output that is generated for heating the air to compensate for variations in at least one of the temperature of the anode gas and a proportion of the combustible components in the anode gas.

Claim 7 (previously presented): A method according to claim 6 including independently modulating the heat output during heating the air and a heat output generated for heating the effluent.

Claim 8 (currently amended): A method according to claim 1 including buffering the anode gas prior to adding ~~oxygen~~ air to compensate for temporal fluctuations in at least one of the proportion of combustible components in the anode gas and a temperature of the anode gas.

Claim 9 (previously presented): A method of operating a fuel cell which generates an anode gas that includes an oxidizable component comprising flowing the anode gas through a first flow path of a heat exchanger having first and second flow paths separated by a heat exchange member, directing an air flow through the second flow path of the heat exchanger, heating the air flow upstream of the heat exchanger, transferring heat from the anode gas to the air flow in the first and second flow paths to thereby decrease a temperature of the anode gas and form a cooled anode gas, thereafter mixing the cooled anode gas and the air flow downstream of the flow paths to form a mixture, directing the mixture through a catalytic oxidizer for oxidizing the oxidizable component in the anode gas and generating heat, flowing an effluent from the catalytic oxidizer to the fuel cell, and at least at times during the operation of the fuel cell heating the effluent from the catalytic oxidizer before the effluent reaches the fuel cell.

Claim 10 (original): A method according to claim 9 including selecting a heat input to the air flow and a length of the first and second flow paths so that substantially all portions of the mixture downstream of the flow paths have a temperature that is below an auto-ignition temperature of the oxidizable component in the anode gas.

Claim 11 (original): A method according to claim 10 wherein heating comprises heating the air flow sufficiently to maintain a temperature of the mixture at which the oxidizable component of the anode gas oxidizes in the catalytic oxidizer.

Claim 12 (canceled)

Claim 13 (withdrawn): Apparatus for continuously operating a fuel cell and extracting heat from an oxidizable component in an anode gas generated by the fuel cell comprising a heat exchanger in fluid communication with the fuel cell for flowing the anode gas through a first portion of the heat exchanger, the heat exchanger being further in fluid communication with a source of an oxygen-containing gas and having a second portion through which the oxygen-containing gas flows, whereby the temperatures of the anode gas and the oxygen-containing gas tend to equalize in the heat exchanger, a downstream end of the heat exchanger being in fluid communication with a space where the anode gas and the oxygen-containing gas mix and form a mixture of anode gas and oxygen-containing gas, a first burner located upstream of the heat exchanger for heating the oxygen-containing gas, a catalytic oxidizer in fluid communication with the space receiving and oxidizing the mixture, the catalytic oxidizer emitting a heated effluent, a conduit for directing at least a portion of the heated effluent from the catalytic oxidizer back to the fuel cell, and a second burner for heating the effluent during at least portions of the time when the fuel cell is operating.

Claim 14 (withdrawn): A heat exchanger according to claim 13 including a controller that independently modulates a heat output generated by the first and second burners.

Claim 15 (withdrawn): Apparatus according to claim 13 wherein the heat exchanger comprises first and second parallel conduits.

Claim 16 (withdrawn): Apparatus according to claim 15 wherein the heat exchanger comprises an outer tubular member extending in the flow direction of the oxygen-containing gas and a plurality of spaced-apart pipes extending generally parallel to the tubular member and having openings proximate downstream ends of the pipes which are in fluid

communication with the space, one of the tubular member and the pipes being in fluid communication with the oxygen-containing gas flow downstream of the first burner and the other one of the tubular member and the pipes being in fluid communication with the fuel cell for receiving the anode gas so that the mixture is formed in the space after the temperature differential between the anode gas and the oxygen-containing gas has been reduced to thereby prevent the formation of auto-igniting hot spots in the mixture.

Claim 17 (withdrawn): Apparatus according to claim 16 wherein the pipes are arranged proximate an outer wall of the tubular member.

Claim 18 (withdrawn): Apparatus according to claim 17 including a deflector in the flow of the oxygen-containing gas located upstream of the pipes for directing the oxygen-containing gas radially outward towards the pipes arranged proximate the outer wall of the tubular member.

Claim 19 (withdrawn): Apparatus according to claim 13 wherein the source is a source of air.

Claim 20 (currently amended): A method for operating a fuel cell that generates anode gas including combustible components comprising receiving anode gas from the fuel cell at an elevated temperature, adding air to the anode gas in an amount at least sufficient for oxidation of the combustible components to form an oxidizable anode gas mixture, heating the air when the temperature of the mixture drops below a temperature at which the combustible components catalytically oxidize to thereby give the mixture a temperature at which the combustible components catalytically oxidize, exchanging heat between the air and the anode gas prior to forming the mixture to thereby lower local peak temperatures developing during forming the mixture, catalytically oxidizing the mixture to form an effluent, [[and]] thereafter heating the effluent during at least portions of the time when the fuel cell generates electricity, and flowing the effluent to the fuel cell.